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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,508	09/02/2003	Andrew M. Vesel	03CR329/KE	3864

7590 06/07/2005

Attention: Kyle Eppeler  
Rockwell Collins, Inc.  
400 Collins Rd., NE  
Cedar Rapids, IA 52498

EXAMINER

A, MINH D

ART UNIT	PAPER NUMBER
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2821

DATE MAILED: 06/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/653,508

Applicant(s)

VESEL ET AL.

Examiner

Minh D A

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-22, 29-33 is/are allowed.
- 6) ☒ Claim(s) 23-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 9/2/03
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 23-28 are rejected under 35 U.S.C. 102(b) as being unpatentable by Kuntman et al (US 6,222,480).

Regarding claim 23, Kuntman discloses an aircraft comprising: an antenna comprising: a functional connector configured for electrical coupling to a functional load comprising an air traffic control transponder and a functional radiating element and plurality of non-functional connectors each configured for coupling to a non-functional load; a base plate configured for coupling the antenna to the aircraft. See figures 10-13, col.20, col.43-67 to col.23, lines 1-35.

Regarding claim 24, Kuntman discloses a plurality of cables (222) for connecting the functional connector of the antenna the functional load and the plurality non-functional connectors to the non-functional load. See figure 10.

Regarding claims 25-26, Kuntman discloses the non-functional load comprising a dummy load and four functional connectors for coupling to at least one of an air traffic control transponder and traffic alert and collision avoidance system and having a base plate configured for coupling the second antenna to the aircraft. See figures 10-13, col.20, col.43-67 to col.23, lines 1-35.

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Regarding claim 27, Kuntman discloses wherein the base plate of the first antenna has a size and a shape corresponding to a size and shape of the base plate of the second antenna. See figures 1-10.

Regarding claim 28, wherein the first antenna and the second antenna are L-band antennas. See figure 1-2.

### ***Allowable Subject Matter***

3. Claims 10-22, 29-33 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach that, a first weather detection and avoidance radar system; wherein the first air traffic control transponder and the first traffic alert and collision avoidance system are configured for electrical coupling to a four radiating element antenna', a second cabinet configured for housing: a second air traffic control transponder; a second traffic alert and collision avoidance system', a second terrain awareness and warning system', a second weather detection and avoidance radar system', wherein the second cabinet includes at least the second air traffic control transponder and is configured for electrical coupling to a single radiating element antenna in combination with all limitations recited in independent claims 10 and 17.

The prior art does not teach that, a first cabinet configured for housing: a first air traffic control transponder; a first traffic alert and collision avoidance system; a first terrain awareness and warning system; first weather detection and avoidance

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system; a second cabinet configured for housing: a second cabinet configured for housing: a second air traffic alert and collision avoidance system and second terrain awareness and warning system and second weather detection and avoidance radar system recited in independent claim 29.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hudson et al (US 6,545,631) and Johnson et al. (US 6,788,245) are cited to show a surveillance receiver.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Minh A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 –2:30 PM).

If attempts to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and (703) 872-9319 for final communications.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (571) 272-1553.

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Examiner

Minh A

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5/30/05



**WILSON LEE**  
**PRIMARY EXAMINER**